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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-19-40** **Date: 15-02-20**
Project Name	:	Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/ 148 /2019-20
Date of Receipt	:	12-02-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-02-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	248.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Noted & N.D.
AE(WQ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-08-19-40** **Date: 12-03-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/ 148 /2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	13-02-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

AE(WST)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-19-40** **Date: 15-02-20**
Project Name	:	Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/ 148 /2019-20
Date of Receipt	:	12-02-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-02-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-19-40** **Date: 15-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.59	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

Ashly. N.D.
AE(Tech)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-08-19-40** **Date: 15-02-20**
Project Name	:	Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.
Agency	:	Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/ 148 /2019-20
Date of Receipt	:	12-02-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-02-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	275	275	5.5	94.5	90-100
3	10 mm	2751	3026	60.5	39.5	25-55
4	4.75 mm	1750	4776	95.5	4.5	0-10
5	Pan	224	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-08-19-40** **Date: 15-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Ashwini. N.D
AE(KCI)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig..... Date.....

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-19-40** **Date: 15-02-20**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 12-02-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-02-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	206	527	52.7	47.3	15-34	35-59	60-79	80-100
6	300 micron	203	730	73.0	27.0	5-20	8-30	12-40	15-50
7	150 micron	190	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-08-19-40** **Date: 15-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Asstnlly. N.D
AE(ual)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

CIVIL Pro Sig. Date

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-08-19-40** **Date: 18-02-20**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 17-02-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 17-02-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro BANGALORE Sig Date

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-08-19-40**

Date: 09-03-20

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 03-03-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 03/03/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

AE(WS)

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40**

Date: 03/03/2020

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 27-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	151.32 X 150.06 X 149.28	22708	**8.864**	418.3	18.4	18.3
2	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	150.03 X 149.03 X 150.90	22358	**8.843**	409.3	18.3	
3	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	150.28 X 151.13 X 150.29	22711	**8.722**	415.1	18.3	

Adml(4). N.D
AE (Tech)

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 24/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 27-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	150.83 X 150.74 X 150.01	22736	**8.593**	529.5	23.3	23.1
2	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	149.54 X 151.31 X 151.17	22628	**8.813**	506.6	22.4	
3	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	149.59 X 149.98 X 150.82	22434	**8.514**	526.7	23.5	

Abhilf. N.D
AE(Ret)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40**

Date: 03/03/2020

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 27-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	150.71 X 149.47 X 149.19	22527	**8.864**	427.4	19.0	18.4
2	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	151.93 X 150.96 X 151.91	22935	**8.843**	418.7	18.3	
3	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	149.09 X 151.82 X 151.90	22634	**8.722**	408.2	18.0	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 24/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 27-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	150.30 X 149.40 X 150.68	22456	**8.593**	536.8	23.9	23.5
2	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	150.78 X 151.88 X 151.93	22901	**8.813**	519.7	22.7	
3	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	149.91 X 151.17 X 149.45	22662	**8.514**	540.5	23.8	

Ashly. N.D
AE(W2)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40**

Date: 03/03/2020

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 27-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	149.11 X 151.43 X 151.15	22581	**8.864**	420.6	18.6	18.6
2	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	151.14 X 151.78 X 150.28	22940	**8.843**	415.3	18.1	
3	Drain Bottom Slab Concrete	M20	25/02/2020	03/03/2020	151.24 X 149.17 X 151.15	22561	**8.722**	428.0	19.0	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
Bangalore.

CIVIL Pro Sig. Date BANGALORE

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 24/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 27-02-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	151.42 X 151.15 X 152.00	22887	**8.593**	527.9	23.1	23.0
2	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	151.82 X 151.79 X 151.19	23046	**8.813**	527.2	22.9	
3	Drain Bottom Slab Concrete	M20	25/02/2020	24/03/2020	151.92 X 149.78 X 150.59	22754	**8.514**	526.5	23.1	

Ashalf. N.D.
AE(KSI)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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R KARTHIK RECHAN
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 07/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 02-03-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	149.64 X 149.58 X 151.21	22382	**8.864**	421.0	18.8	18.5
2	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.57 X 150.21 X 150.42	22767	**8.843**	415.4	18.2	
3	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.41 X 151.80 X 151.65	22984	**8.722**	425.7	18.5	

Assistant Executive Engineer,
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 28/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 02-03-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	151.91 X 149.57 X 149.59	22720	**8.593**	526.7	23.2	22.9
2	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	150.95 X 149.80 X 150.33	22612	**8.813**	499.3	22.1	
3	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	151.62 X 150.50 X 151.84	22819	**8.514**	538.1	23.6	

Asstly. N.D.
AE (UG)

Assistant Executive Engineer.
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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 07/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 02-03-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.07 X 151.25 X 150.19	22850	**8.864**	429.8	18.8	18.7
2	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.42 X 149.63 X 150.04	22658	**8.843**	422.1	18.6	
3	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.75 X 150.38 X 150.84	22821	**8.722**	428.3	18.8	

As hplg. ND
AE(KSI)

Assistant Executive Engineer.
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 28/03/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 02-03-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	149.45 X 149.88 X 149.08	22399	**8.593**	536.6	24.0	23.3
2	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	150.37 X 149.23 X 149.45	22440	**8.813**	503.7	22.4	
3	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	151.81 X 151.92 X 149.19	23063	**8.514**	544.3	23.6	

Asst.Ly. N.D.
JE (KSI)

Assistant Executive Engineer.
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2020

Lab ID : **CP-2020-08-19-40**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 02-03-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.29 X 151.04 X 149.65	22851	**8.864**	428.7	18.8	18.5
2	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.73 X 149.85 X 150.89	22736	**8.843**	418.8	18.4	
3	Drain Side Wall Concrete	M20	29/02/2020	07/03/2020	151.30 X 149.97 X 151.46	22692	**8.722**	415.8	18.3	

AE(Ast)

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/03/2020

Lab ID : **CP-2020-08-19-40**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 02-03-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	151.17 X 149.27 X 149.32	22566	**8.593**	538.8	23.9	23.3
2	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	150.31 X 151.21 X 151.45	22729	**8.813**	514.3	22.6	
3	Drain Side Wall Concrete	M20	29/02/2020	28/03/2020	150.79 X 151.99 X 150.64	22919	**8.514**	537.5	23.5	

AE(us1)

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/08/2020

Lab ID : **CP-2020-08-19-40**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.48 X 151.19 X 149.90	22903	**8.834**	581.4	25.4	25.6
2	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.43 X 149.90 X 149.37	22399	**8.209**	601.1	26.8	
3	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	150.37 X 151.20 X 150.16	22736	**8.168**	561.6	24.7	

AE (HSI)

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 25/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.44 X 151.35 X 149.10	22618	**8.508**	756.8	33.5	33.2
2	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.51 X 150.69 X 150.56	22528	**8.554**	731.0	32.4	
3	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	150.21 X 149.56 X 151.40	22466	**8.646**	760.1	33.8	

Am In Lly. N·D
AE(HQ)

FOR CIVIL Pro.
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Date.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 04/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	150.12 X 151.02 X 151.99	22671	**8.834**	572.8	25.3	25.6
2	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.39 X 150.11 X 150.07	22425	**8.209**	605.4	27.0	
3	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.86 X 151.40 X 149.03	22991	**8.168**	564.6	24.6	

AE (Ret)

Assistant Executive Engineer,
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CIVIL Pro Sig. Date BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 25/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	150.34 X 149.07 X 150.55	22411	**8.508**	749.1	33.4	33.3
2	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	150.61 X 150.42 X 150.67	22654	**8.554**	738.3	32.6	
3	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	150.47 X 151.89 X 151.01	22856	**8.646**	776.7	34.0	

AE(UC)

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 04/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.93 X 151.75 X 151.04	23056	**8.834**	598.1	25.9	25.6
2	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.92 X 151.48 X 151.89	22710	**8.209**	591.0	26.0	
3	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.29 X 149.76 X 149.53	22357	**8.168**	557.1	24.9	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 25/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	151.73 X 149.24 X 150.32	22644	**8.508**	762.6	33.7	33.4
2	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	151.74 X 149.61 X 150.30	22701	**8.554**	744.9	32.8	
3	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.23 X 149.23 X 150.02	22270	**8.646**	750.3	33.7	

Mrs. N.D
AE(Lab)

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Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/08/2020

Lab ID : **CP-2020-08-19-40**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.11 X 150.73 X 149.84	22776	**8.834**	588.8	25.9	25.5
2	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.33 X 150.13 X 149.14	22419	**8.209**	595.0	26.5	
3	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	150.03 X 150.88 X 149.08	22636	**8.168**	543.7	24.0	

AE (WS)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 25/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	151.79 X 149.62 X 150.56	22711	**8.508**	750.1	33.0	33.1
2	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.31 X 151.36 X 150.74	22600	**8.554**	733.1	32.4	
3	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	150.39 X 149.00 X 151.07	22408	**8.646**	757.0	33.8	

AE(Ret)

CIVIL PRO BANGALORE Sig. Date

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 04/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	152.00 X 151.61 X 150.64	23044	**8.834**	597.5	25.9	25.5
2	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.86 X 149.46 X 151.37	22697	**8.209**	599.8	26.4	
3	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.69 X 151.04 X 151.61	22610	**8.168**	545.0	24.1	

AE(W&D)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 25/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.24 X 151.56 X 149.81	22619	**8.508**	753.2	33.3	33.1
2	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	150.69 X 149.36 X 151.03	22508	**8.554**	729.9	32.4	
3	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.40 X 151.68 X 150.18	22661	**8.646**	764.1	33.7	

Approved. N.D
AE(Wet)

CIVIL Pro Sig. Date. BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 04/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.16 X 150.73 X 150.27	22784	**8.834**	586.3	25.7	25.5
2	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	151.07 X 149.91 X 151.83	22648	**8.209**	597.6	26.4	
3	Cement Concrete Pavement	M30	28/07/2020	04/08/2020	149.35 X 150.14 X 149.41	22423	**8.168**	548.1	24.4	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig Date BANGALORE

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AME. N.D
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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-08-19-40** **Date: 25/08/2020**

Project Name : Improvements to Roads and Drains of Mother Teresa Road Mariyannapalya in Ward No.7 Byatarayanapura.

Agency : Executive Engineer, Karnataka Rural Infrastructure Development Ltd, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/ 148 /2019-20

Date of Receipt : 31-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.16 X 150.47 X 150.34	22445	**8.508**	754.2	33.6	33.3
2	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	149.08 X 149.50 X 149.09	22287	**8.554**	731.5	32.8	
3	Cement Concrete Pavement	M30	28/07/2020	25/08/2020	151.36 X 150.56 X 149.18	22789	**8.646**	762.1	33.4	

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R KARTHIK RECHAN
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Asstt.E.E.
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****End of Report****

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